Patent/Abstracts of Japan

PUBLICATION NUMBER

11199565

PUBLICATION DATE

27-07-99

APPLICATION DATE

16-10-98

APPLICATION NUMBER

10294339

APPLICANT:

TOYAMA CHEM CO LTD:

INVENTOR:

SHIRAKI KIMIYASU;

INT.CL.

C07D219/06 A61K 31/00 A61K 31/435

A61K 31/44 A61K 31/47 A61K 31/495

A61K 31/505 A61K 31/535 A61K

31/535 A61K 31/70

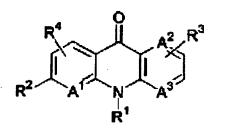
TITLE

NITROGEN-CONTAINING TRI-OR

TETRACYCLIC COMPOUND AND

ANTIVIRAL AGENT CONTAINING THE

SAME COMPOUND



 A^2 A^3 A^3

ABSTRACT:

PROBLEM TO BE SOLVED: To obtain the subject medicine such as antiherpes viral agent exhibiting excellent antiviral activity and useful as a medicine by including a specific nitrogen-containing tri or tetracyclic compound.

SOLUTION: This antiviral agent contains a nitrogen-containing tri or tetracyclic compound of formula I [R¹ is a (substituted)alkyl or the like; R² is a

(substituted)aryl or the like; R³ is H or the like; R⁴ is H or the like;

A¹ or A² is N or the like; A³ is CH or the like] or its salt

[e.g. 2-fluoro-10- methyl-6-(pyridin-4-yl)-9,10-dihydro-9-acylidinone or the like]. The antiviral agent is administered at a daily dose of 0.1-100 mg/kg.adult once or in several portions. The compound of formula I is obtained by subjecting a compound of formula II (X is a leaving group) to coupling reaction with a tin compound of the formula

R²-Sn (Alk)₃ (Alk is a lower alkyl) in the presence (or absence) of silver oxide

and in the presence of a palladium catalyst.

COPYRIGHT: (C)1999,JPO

BNSDOCID: <JP____411199565A_AJ_